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IN THE PRESENCE OF A CATALYST - SULPHURIC
ACID (Nepreryvnyy Protsess Eterifikatsii Sinteti-
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DESCRIPTORS: *Fatty acids, *Esterification, Glycols,
Ethylenes, Catalysts, Sulfuric acid, Industrial plants,
Design, *Tannic acids, Esters, Oils.

The use of sulphuric acid, instead of zinc oxide, as the
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carbons, *Ammonia, *Hexanes, *Cyclohexanes,
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DESCRIPTORS: *Acetyl plastics, Production,
*Aldehydes, *Acetaldehydes, Polymerization,
Catalysts, Metalorganic compounds, *Ziegler
catalysts, Group II elements, *Zinc compounds,
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Plating electrolytes were prepared by mixing aqueous solutions of sodium tungstate (60g/l); sodium citrate or sodium tartarate (60g/l); hydrazine sulfate (10g/l); and cobalt, nickel, or iron sulfate (20g/l). Electroplating was carried out at 70° to 95°C with a current density of 5 amp/dm² for 30 minutes. The hydrazine sulfate solution was added as required. A pH of 8 was maintained with ammonia or sulfuric acid. Alloys deposited on the cathode had the compositions 40%W-60%Co, 45%W-55%Fe or W-Ni. The plated layer was more than 3 microns thick and gave strong acid resistance and hardness.

£1-15282

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2. Tungsten alloys--
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DESCRIPTORS: Polymers, *Ethylenes, *Glycols,
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- I. Ishiguro, T.
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- III. Akasawa, Y.
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(See also 62-18191)

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A Method of Measuring the Metallic Diffusion by the Use of Autoradiographic Method, by Y. Ishii, 7 pp. (17)

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KINETICS OF SUCCESSIVE ADDITION OF ETHYLENE OXIDE TO PHENOL. Pt. 3 of Studies of the Kinetics on the Ring Opening Addition of Epoxy Compounds to the Active Hydrogen Compound. [1961] 17p. 9 refs.
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Trans. of Kogyo Kagaku Zasshi (Japan) 1960, v. 63 [no. 12] p. 2177-2180.

Portions of this report will not reproduce well.

DESCRIPTORS: *Ethylene oxide, *Phenols, *Ethanol, *Phenoxy radicals, Chemical reactions, Reaction kinetics.

This paper deals with the measurement of the addition reaction of ethylene oxide with phenol and phenoxy- (Chemistry--Organic, TT, v. 6, no. 12) (over)

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I. Ishii, Y.
II. Title: Studies...

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Clinical and Histologic Studies on Cases Treated
With Carzinophilin, by Y. Ishii, Y. Sato, T.
Hatori, T. Fukui, 16 pp.

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Ishii, Y., Sekiguchi, S., and Hayakawa, A.
THE MOLAR DISTRIBUTION OF ALCOHOL-ETHYLENE
OXIDE ADDUCTS. [1963] [14p] 11 refs
Order from SLA \$1.60 TT-63-20243

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65,
p. 1041-1044. (Abstract available)

DESCRIPTORS: *Surface-active substances, *Alcohols,
*Ethylene oxide, Gas chromatography, Catalysts,
Sodium

The molar distribution, which governs the nature of
nondionic surfactants (surface emulsifiers), was studied,
using gas chromatography, for the ethylene oxide ad-
ducts of eight $C_1 \sim C_4$ alcohols, prepared at 100° and
130°C using metallic sodium as a catalyst. From these
experimental results the distribution constants c of
Weibull and Nycander were obtained, and it was found
that the main factors governing the c -value are the
(Chemistry--Organic, TT, v. 11, no. 2) (over)

- I. Title: Adducts
- I. Ishii, Y.
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- III. Hayakawa, A.

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Elasticizing Properties of Triethylene Glycol
Diesters Compared with Dicarboxylic Acid Esters,
by Yoshio Ishii and Masao Takanouchi.

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no. 4, pp. 434-436.
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TT-62-28587

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POLYMERISATION DE L'OXYDE DE PROPYLENE
PAR LES ALCALIS ALCOXYDES CATALYTIQUES
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Metal Alkoxides). 19p. (foreign text included) 10 refs.
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Trans. in French of Kogyo Kagaku Zasshi (Japan) 1959,
v.62, no.7, p.1051-1054.

DESCRIPTORS: Carbon compounds, Hydrogen com-
pounds, Oxides, *Polymerization, *Catalysts, Alkali
metals.

(Chemistry--Organic, TT, v. 11, no. 7)

- I. Ishii, Yoshio
- II. Sekiguchi, Shizen
- III. CNRS-VI 802
- IV. Centre National de la Recher-
che Scientifique, Paris

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PREPARATION OF ALPHA GLYCOLS FROM
OLEFINS BY PEROXIDE OXIDATION. [1963] 8p.
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Trans. of [Kogyo Kagaku Zasshi] (Japan) 1961, v. 54,
p. 58-59.

DESCRIPTORS: *Glycols, Synthesis (Chemistry),
*Ethylenes, *Propenes, *Butenes, *Pentenes, *Cyclo-
hexenes, *Peroxides, Oxidation, Cyclohexanols,
Carboxylic acids.

Preparation of alpha glycols from olefinic hydrocarbons
via peracid oxidation was studied. Ethylene, isobutyl-
ene, and isoamylene yielded no glycol, and propylene
gave only a small amount. Butylene was easily oxidized.
Oxidation of cyclohexene by Karo acid, peracetic acid,
(Chemistry--Organic, TT, v. 10, no. 11) (over)

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1. Title: Cetene
2. Title: Octadecene
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RATE OF STEP-WISE ADDITION OF PROPYLENE
OXIDE TO COMPOUNDS WITH ACTIVE HYDROGEN.
[Pt.] 3 of Studies on Non-Ionic Surface Activating
Agents. [1963] [14]p. 5 refs.
Order from S.L.A \$1.60

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Trans. of Kogyo Kagaku Zasshi (Japan) 1959, v. 62,
p. 86-88.

DESCRIPTORS: *Surface-active substances, *Propanols,
Ethy radicals, Synthesis (Chemistry), *Propene,
Oxides, *Epoxides, Addition reactions, Alcohols,
Catalysts, Sodium compounds, Alkyl radicals,
Reaction kinetics.

In order to quantitatively measure the rate of step-
wise addition of oxylene compounds to compounds with
active hydrogen, the reaction velocity for the first and
(Chemistry--Physical, TT, v. 1(1, no. 11) (over)

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1. Title: 1-(2-Ethyl hexoxy)-
2-propanol
2. Title: Propylene oxide
- I. Ishii, Y.
- II. Sekiguchi, S.
- III. Ito, S.
- IV. Title: Studies ...

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POLYMERIZATION OF PROPYLENE OXIDE WITH
METAL ALKOXIDES. Rept. 2 of Studies on the
Polymerization of Epoxy-Compounds. Oct 62, 31p.
12 refs.
Order from SA \$30.00 SA Code-G564

Trans. in manuscript of Kogyo Kagaku Zasshi (Japan)
1961, v. 64, no. 8, p. 1497-1501.

DESCRIPTORS: *Epoxides, *Propenes, Oxides, Poly-
merization, Catalysts, Magnesium compounds, Cobalt
compounds, Iron compounds, Aluminum compounds,
Lithium compounds.

(Materials--Plastics, TT. v. 8, no. 12)

- I. Ishii, Y.
- II. Sekiguchi, J.
- III. Hattori, M.
- IV. Title: Studies ...
- V. SA Code-G564
- VI. Seizaburo Aoki (Japan)

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The Stabilization of Hydrogen Peroxide by Means
of Colloidal Tin Dioxide, Part I, II, and III,
by Ishikawa, Yoshika, M. Nohe, 10 pp.

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No 1/3 and 4/6, 1948, pp 35-37; 28-31.

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T.I.L. T-4549

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Palladium Electrode for the Measurement of
PH. -Denki Kagaku, by Fusao Ishikawa, Sebuo
Fujii, 11 pp.

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